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Jan 9, 2002

DERWENT-ACC-NO: 2002-165891
DERWENT-WEEK: 200231
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TITLE: Novel Escherichia coli which has an ability to produce arginine and utilize acetate, useful for producing L-arginine which is utilized industrially as ingredients of liver function promoting agents

INVENTOR: GUSYATINER, M M; LEONOVA, T V ; PTITSYN, L R ; YAMPOLSKAYA, T A

PATENT-ASSIGNEE: AJINOMOTO KK (AJIN), AJINOMOTO CO INC (AJIN)

PRIORITY-DATA: 2000RU-0117677 (July 6, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1170358 A1	January 9, 2002	E	009	C12N001/20
CN 1332250 A	January 23, 2002		000	C12P013/10
JP 2002017342 A	January 22, 2002		005	C12N001/20
US 20020034793 A1	March 21, 2002		000	C12P013/10

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1170358A1	June 18, 2001	2001EP-0114588	
CN 1332250A	June 28, 2001	2001CN-0121882	
JP2002017342A	June 14, 2001	2001JP-0180211	
US20020034793A1	June 22, 2001	2001US-0886254	

INT-CL (IPC): C12 N 1/00; C12 N 1/20; C12 N 15/01; C12 P 13/10; C12 P 13/10; C12 R 1:19; C12 P 13/10; C12 R 1:19

RELATED-ACC-NO: 2002-173100

ABSTRACTED-PUB-NO: EP 1170358A

BASIC-ABSTRACT:

NOVELTY - An Escherichia coli (I) which has an ability to produce arginine and utilize acetate, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method of producing (I) by imparting the ability to utilize acetate to an E. coli strain which has the ability to produce arginine or to utilize acetate; and

(2) a method of producing arginine comprising cultivating (I) in a culture medium to produce and accumulate arginine in the medium.

USE - (I) is useful for producing arginine by cultivating (I) in a culture medium to produce and accumulate arginine in the medium (claimed). The L-arginine produced by

(I) is useful industrially as ingredients of liver function promoting agents, amino acid transfusions, and comprehensive amino acid preparations.

ADVANTAGE - (I) produces arginine efficiently.

ABSTRACTED-PUB-NO: US20020034793A

EQUIVALENT-ABSTRACTS:

NOVELTY - An Escherichia coli (I) which has an ability to produce arginine and utilize acetate, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

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(2) a method of producing arginine comprising cultivating (I) in a culture medium to produce and accumulate arginine in the medium.

USE - (I) is useful for producing arginine by cultivating (I) in a culture medium to produce and accumulate arginine in the medium (claimed). The L-arginine produced by (I) is useful industrially as ingredients of liver function promoting agents, amino acid transfusions, and comprehensive amino acid preparations.

ADVANTAGE - (I) produces arginine efficiently.

CHOSEN-DRAWING: Dwg.0/1

DERWENT-CLASS: B04 D16

CPI-CODES: B04-F10A3; B10-A17; D05-C01; D05-H04; D05-H08;